

CENTRIFUGAL PUMPS – MONOBLOC in cast iron

Single impeller centrifugal pumps manufactured in cast iron, suitable for pressure boosting of water for irrigation, and non-aggressive liquids for civil and industrial uses. CMR series is fitted with an open impeller for suspended solids handling.



SPECIFICATIONS

- Maximum working pressure : 6 bar, 8 bar for CMA 1.50-2.00-3.00 – CMB 4.40-5.50
- Maximum liquid temperature : 35°C according to EN 60335-2-41 for domestic uses
40°C for CMA 0.50-0.75-0.80-1.00
90°C for other models

MATERIALS

- Pump body in cast iron
- Mechanical seal in carbon/ceramic/NBR
- Impeller : In technopolymer for CMA 0.50-0.75-0.80-1.00
In brass for CMA 1.50-2.00-3.00
CMB 2.00-3.00-4.00-5.50
CMR 0.75-1.00
In cast iron for the other models
- Shaft : In AISI 303 for CMA 1.50-2.00-3.00
CMB 1.50-2.00-3.00
CMD 1.50-2.00-3.00
In AISI 304 for CMB 4.00-5.50
CMD 4.00
In AISI 416 for the other models
- Bracket : In aluminium for CMA 0.50-0.75-0.80-1.00
CMB 0.75-1.00
CMC 0.75-1.00
CMR 0.75-1.00
In cast iron for the other models

TECHNICAL DATA

- T.E.F.C. 2 pole motor
- Insulation: Class F
- Protection degree: IP44
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version

CENTRIFUGAL PUMPS

CMA-B-C-D

SELECTION CHART

50Hz

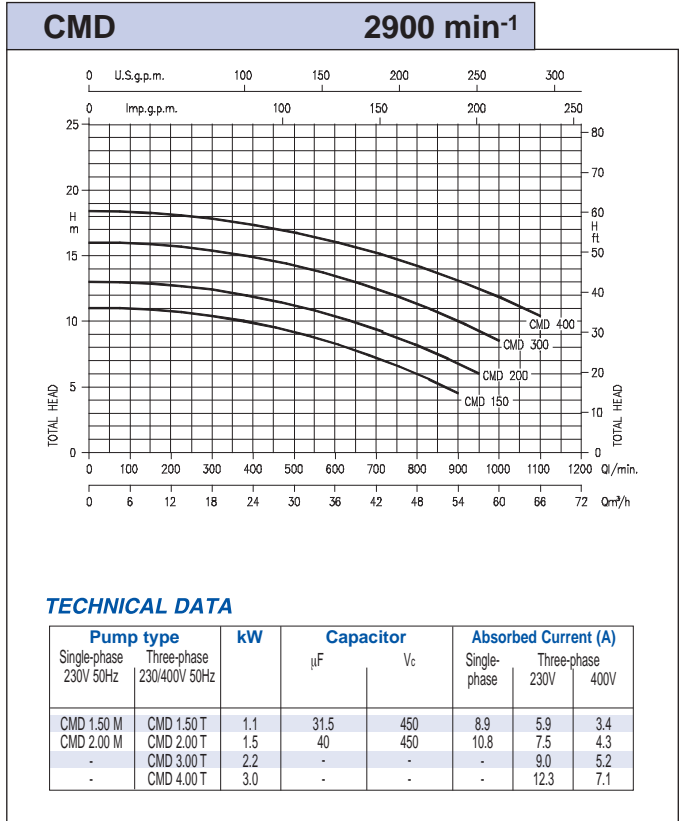
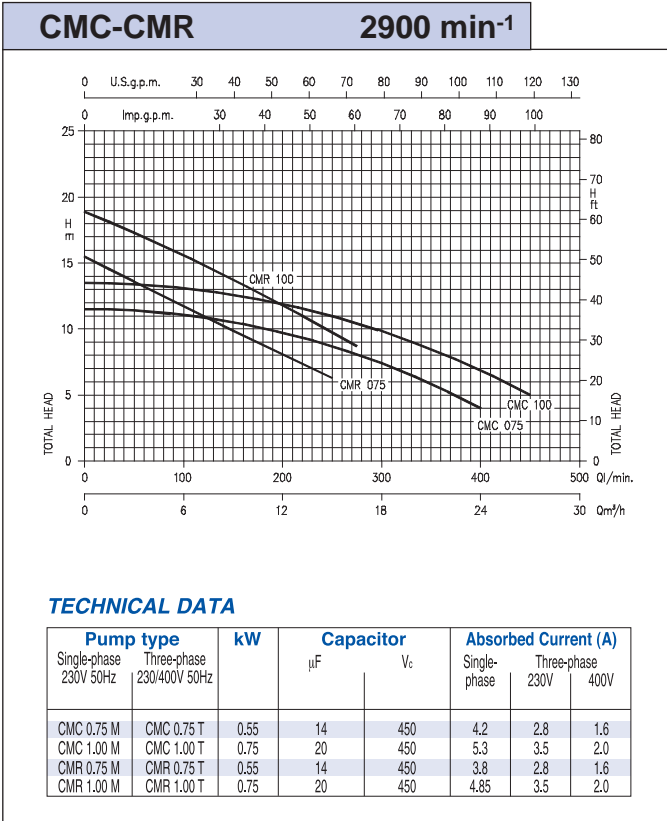
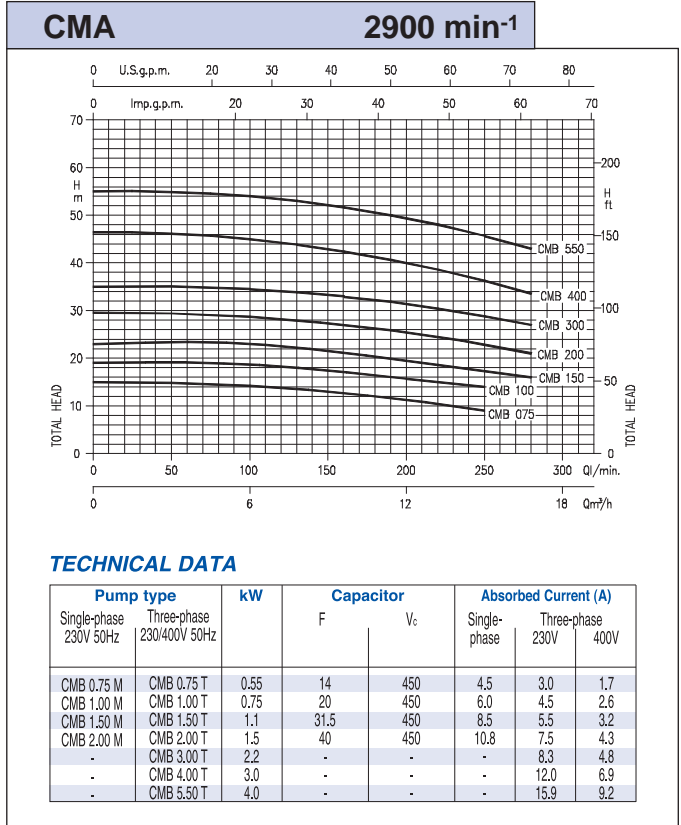
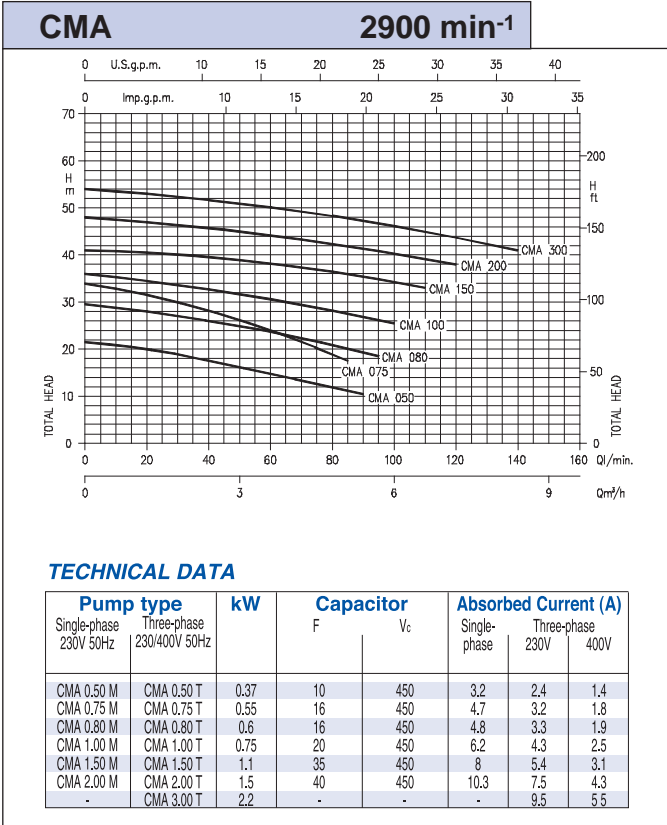
Type pumps		kW	HP	Q=Capacity											
Single phase	Three phase			l/min	20	40	60	80	85	90	95	100	110	120	140
230 V	230/400 V			m ³ /h	1.2	2.4	3.6	4.8	5.1	5.4	5.7	6	6.6	7.2	8.4
50 Hz		50 Hz	H=Total manometric head in meters												
CMA 0.50 M	CMA 0.50 T	0.37	0.5	20	17.8	15	12.1	11.2	10.5	-	-	-	-	-	
CMA 0.75 M	CMA 0.75 T	0.55	0.75	31.5	28.2	24	18.9	17.5	-	-	-	-	-	-	
CMA 0.80 M	CMA 0.80 T	0.6	0.8	28	26.1	23.8	20.9	20.1	19.3	18.5	-	-	-	-	
CMA 1.00 M	CMA 1.00 T	0.75	1	34.5	32.8	30.6	27.7	26.9	26	25	-	-	-	-	
CMA 1.50 M	CMA 1.50 T	1.1	1.5	40.5	39.6	38.2	36.5	36	35.6	34.9	34.3	33	-	-	
CMA 2.00 M	CMA 2.00 T	1.5	2	47	45.8	44.2	42.4	41.9	41.4	40.9	40.3	39.2	38	-	
-	CMA 3.00 T	2.2	3	53	51.8	50.2	48.3	47.8	47.3	46.7	46.2	45	43.7	41	

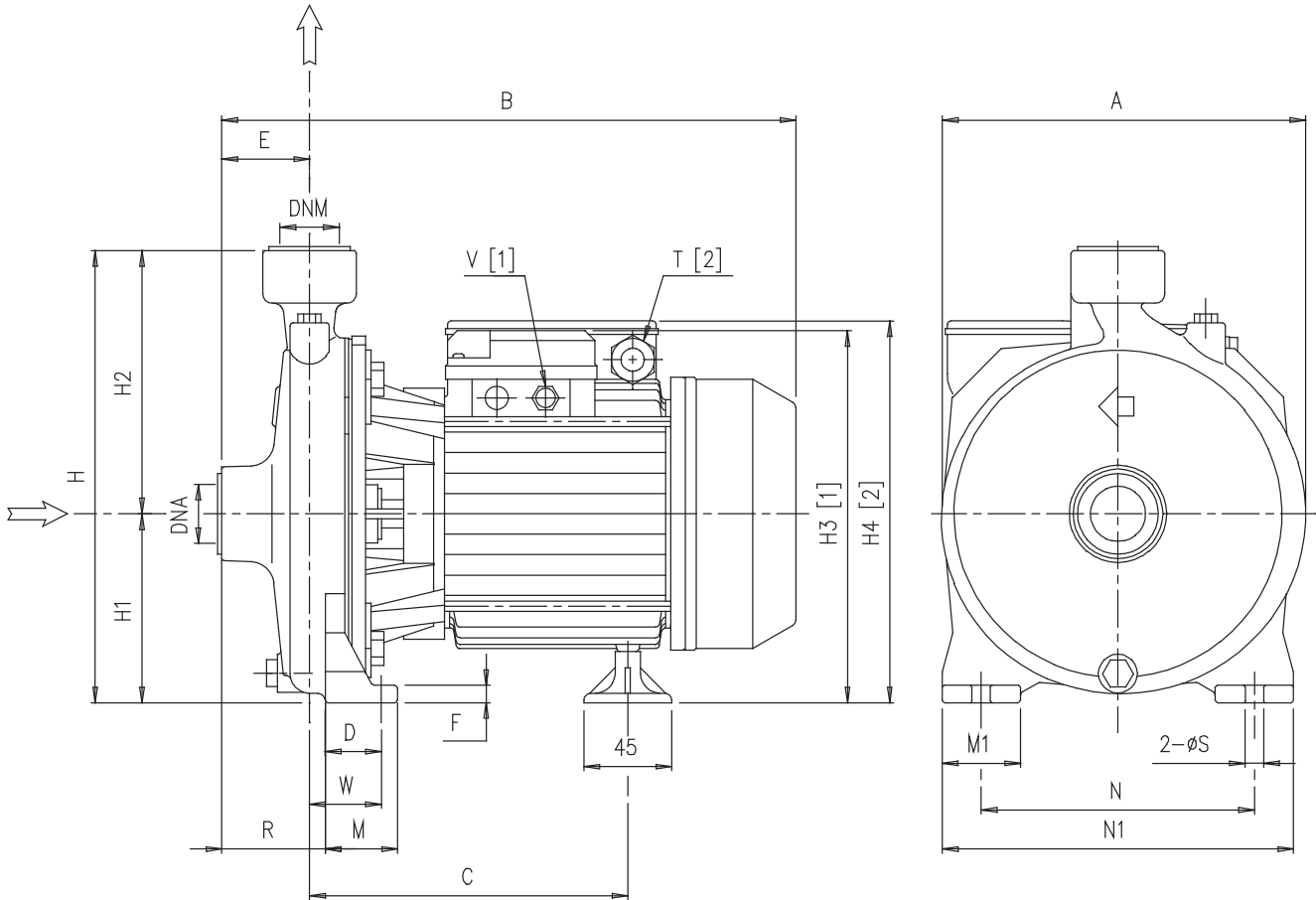
Type pumps		kW	HP	Q=Capacity						
Single phase	Three phase			l/min	100	140	180	220	250	280
230 V	230/400 V			m ³ /h	6	8.4	10.8	13.2	15	16.9
50 Hz		50 Hz		H=Total manometric head in meters						
CMB 0.75 M	CMB 0.75 T	0.55	0.75	14.2	13.3	12	10.4	9	-	
CMB 1.00 M	CMB 1.00 T	0.75	1	18.4	17.4	16.1	15.2	14	-	
CMB 1.50 M	CMB 1.50 T	1.1	1.5	22.4	21.1	19.8	18.0	17.1	16	
CMB 2.00 M	CMB 2.00 T	1.5	2	28.7	27.7	26.3	24.5	22.8	21	
-	CMB 3.00 T	2.2	3	34.5	33.7	32.1	30.3	28.8	27	
-	CMB 4.00 T	3	4	45	43.4	41.5	38.4	36.2	33.5	
-	CMB 5.50 T	4	5.5	54	52.3	50.4	48.1	45.7	43	

Type pumps		kW	HP	Q=Capacity						
Single phase	Three phase			l/min	50	150	250	350	400	450
230 V	230/400 V			m ³ /h	3	9	15	21	24	27
50 Hz		50 Hz		H=Total manometric head in meters						
CMC 0.75 M	CMC 0.75 T	0.55	0.75	11.4	10.6	8.8	5.9	4	-	
CMC 1.00 M	CMC 1.00 T	0.75	1	13.4	12.6	11	8.6	6.8	5	

Type pumps		kW	HP	Q=Capacity									
Single phase	Three phase			l/min	300	400	600	800	900	950	1000	1100	
230 V	230/400 V			m ³ /h	18	24	36	48	54	57	60	66	
50 Hz		50 Hz		H=Total manometric head in meters									
CMD 1.50 M	CMD 1.50 T	1.1	1.5	10.4	9.9	8.4	6	4.5	-	-	-		
CMD 2.00 M	CMD 2.00 T	1.5	2	12.4	11.9	10.5	8.3	6.8	6	-	-		
-	CMD 3.00 T	2.2	3	15.4	14.9	13.5	11.4	10	9.3	8.5	-		
-	CMD 4.00 T	3	4	17.8	17.3	16.1	14.2	13.1	12.5	11.8	10.4		

PERFORMANCE CURVE



DIMENSION

DIMENSIONAL TABLE

Pump type		Dimensions (mm)																				Weight		
Single-phase	Three-phase	A	B	C	D	E	F	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	S	DNA	DNM	Kg
CMA 0.50 M	CMA 0.50 T	160	261.8	158.8	30	44	8	202	82	120	3~	1~	40	40	110	150	44	PG11	PG11	30	9.5	G 1	G 1	7.3
CMA 0.75 M	CMA 0.75 T	185	300.3	171.8	36.8	45	9	232	97	135	172.5	173	45	40	140	180	45	PG11	PG11	36.8	9.5	G 1	G 1	11.7
CMA 0.80 M	CMA 0.80 T	185	300.3	171.8	36.8	45	9	232	97	135	197.5	198	45	40	140	180	45	PG11	PG11	36.8	9.5	G 1	G 1	10.7
CMA 1.00 M	CMA 1.00 T	185	300.3	171.8	36.8	45	9	232	97	135	197.5	198	45	40	140	180	45	PG11	PG11	36.8	9.5	G 1	G 1	12.0
CMA 1.50 M	CMA 1.50 T	200	347.3	208.3	41.8	45.5	9	252	100	152	214	232	50	40	155	194	45.5	PG13.5	PG11	41.8	9.5	G 1 1/4	G 1	19.4
CMA 2.00 M	CMA 2.00 T	225	360.3	208.3	41.8	45.5	9	285	115	170	229	247	50	40	180	220	45.5	PG13.5	PG11	41.8	9.5	G 1 1/4	G 1	21.3
-	CMA 3.00 T	225	360.3	208.3	41.8	45.5	9	285	115	170	229	-	50	40	180	220	45.5	-	PG11	41.8	9.5	G 1 1/4	G 1	22.0
CMB 0.75 M	CMB 0.75 T	188	315.3	182.3	36.8	49.5	9	251.5	101.5	150	127	127.5	45	40	140	180	65.5	PG11	PG11	52.8	9.5	G 2	G 1 1/4	12.5
CMB 1.00 M	CMB 1.00 T	188	315.3	182.3	36.8	49.5	9	251.5	101.5	150	127	127.5	45	40	140	180	65.5	PG11	PG11	52.8	9.5	G 2	G 1 1/4	13.8
CMB 1.50 M	CMB 1.50 T	188	349.3	206.3	36.8	49.5	9	251.5	101.5	150	215.5	233.5	45	40	140	180	65.5	PG13.5	PG11	52.8	9.5	G 2	G 1 1/4	20.5
CMB 2.00 M	CMB 2.00 T	200	373.3	209.3	36.8	57.5	9	271.5	111.5	160	225.5	243.5	45	40	160	200	76.5	PG13.5	PG11	55.8	9.5	G 2	G 1 1/4	21.5
-	CMB 3.00 T	200	373.3	209.3	36.8	57.5	9	271.5	111.5	160	225.5	-	45	40	160	200	76.5	-	PG11	55.8	9.5	G 2	G 1 1/4	21.5
-	CMB 4.00 T	247	428.8	222.3	48	60	12	323.5	133.5	190	264.5	-	60	50	190	240	77.5	-	G 1/2	65.5	12	G 2	G 1 1/4	38.0
-	CMB 5.50 T	247	428.8	222.3	48	60	12	323.5	133.5	190	264.5	-	60	50	190	240	77.5	-	G 1/2	65.5	12	G 2	G 1 1/4	41.0
CMC 0.75 M	CMC 0.75 T	186	313.3	186.8	36.8	43	9	247	97	150	197.5	198	45	40	140	180	63.5	PG11	PG11	57.3	9.5	G 2	G 2	12.3
CMC 1.00 M	CMC 1.00 T	186	313.3	186.8	36.8	43	9	247	97	150	197.5	198	45	40	140	180	63.5	PG11	PG11	57.3	9.5	G 2	G 2	13.0
CMD 1.50 M	CMD 1.50 T	213	384.3	222.8	36.8	68	12	271.5	111.5	160	225.5	243.5	45	40	160	200	100.5	PG13.5	PG11	69.3	9.5	G 2 1/2	G 2 1/2	22.0
CMD 2.00 M	CMD 2.00 T	213	397.3	222.8	36.8	68	12	271.5	111.5	160	225.5	243.5	45	40	160	200	100.5	PG13.5	PG11	69.3	9.5	G 2 1/2	G 2 1/2	24.0
-	CMD 3.00 T	213	397.3	222.8	36.8	68	12	271.5	111.5	160	225.5	-	45	40	160	200	100.5	-	PG11	69.3	9.5	G 2 1/2	G 2 1/2	24.0
-	CMD 4.00 T	213	449.3	234.8	36.8	68	12	271.5	111.5	160	354	-	45	50	160	200	100.5	-	G 1/2	69.3	9.5	G 2 1/2	G 2 1/2	31.5
CMR 0.75 M	CMR 0.75 T	180	310.3	181.8	36.8	45	9	229	97	132	197.5	198	45	40	140	180	60.5	PG11	PG11	52.3	9.5	G 1 1/2	G 1 1/2	11.0
CMR 1.00 M	CMR 1.00 T	180	310.3	181.8	36.8	45	9	229	97	132	197.5	198	45	40	140	180	60.5	PG11	PG11	52.3	9.5	G 1 1/2	G 1 1/2	12.2